

Amendments to the Claims

1. (CURRENTLY AMENDED) Integrated circuit comprising a plurality of modules (~~M, S~~), and a network (~~N~~)-arranged for transferring messages between said modules (~~M, S~~), wherein a message issued by a first module (~~M~~) comprises first information indicative for a location of an addressed module within the network, and second information indicative for a location within the addressed module (~~S~~), the integrated circuit comprising
 - at least one address translation means (~~AT~~) for arranging the first and the second information as a single address,
 - wherein said address translation means (~~AT~~) is adapted to determine which module is addressed based on said single address, and
 - wherein the selected location of the addressed module (~~S~~) is determined based on said single address.
2. (CURRENTLY AMENDED) Integrated circuit according to claim 1, further comprising:
 - at least one interface means (~~ANIP, PNIP~~) associated to one of the modules (~~M, S~~) for managing the communication between said associated module (~~M, S~~) and the network (~~N~~),
 - wherein one of said address translation means (~~AT~~) is arranged in one of said interface means (~~ANIP, PNIP~~).
3. (CURRENTLY AMENDED) Integrated circuit according to claim 2, wherein
 - wherein said address translation means (~~AT~~) is arranged in said interface means (~~ANIP, PNIP~~) associated to said first module (~~M~~).
4. (CURRENTLY AMENDED) Integrated circuit according to ~~claim 2 or~~ claim 2, wherein
 - said address translation means (~~AT~~) comprises an address mapping table (~~AMT~~).

5. (CURRENTLY AMENDED) Integrated circuit according to claim 4,
wherein

said address mapping table (~~AMT~~) contains fields for every channel of
a connection, for network interface ports (~~ANIP, PNIP~~) of a connection, and for local
addresses in addressed modules (~~S~~).

6. (CURRENTLY AMENDED) Method for exchanging messages in an
integrated circuit comprising a plurality of modules (~~M, S~~), the messages between the
modules (~~M, S~~) being exchanged via a network (~~N~~), wherein a message issued by a
module (~~M~~) comprises first information indicative for a location of an addressed
module (~~S~~) within the network, and second information indicative for a location
within the addressed module (~~S~~);
the method including the steps of:

- arranging the first and the second information as a single address,
 - determining which module is addressed based on said single address,
- and
- determining the selected location of the addressed module (~~S~~) based on
said single address.